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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/142,108	03/29/1999	FILUPA BRUGLIERA	11658	1756
SCULLY SCOTT MURPHY & PRESSER 400 GARDEN CITY PLAZA GARDEN CITY, NY 11530			EXAMINER	
			NELSON, AMY J	
	•		ART UNIT	PAPER NUMBER
			1638	35
			DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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SERIAL NUMBER	FILING DATE		FIRST NAMED APPLICANT	1	ATTORNEY DOCKET NO.
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EX	AMINER
ART UNIT	PAPER NUMBER
	35

DATE MAILED:

Below is a communication from the EXAMINER in charge of this application

COMMISSIONER OF PATENTS AND TRADEMARKS

	ADVISORY ACTION	K	
☐ THE PERIOD FOR RESPONSE:			
a) is extended to run	or continues to run	from the date of the final rejection	
b) expires three months from the date of event however, will the statutory peni	f the final rejection or as of the mailing od for the response expire later than six	date of this Advisery Action, whichever is controls from the date of the final reject	s later. In no ion.
The date on which the response, the purposes of determining the period or	petition, and the fee have been filed is f extension and the corresponding amo-	36(a), the proposed response and the a the date of the response and also the d unt of the fee. Any extension fee pursua period for response or as set forth in b)	late for the ant to 37 CFR
Appellant's Brief is due in accordance wit	h 37 CFR 1.192(a).		•
Applicant's response to the final rejection to place the application in condition for all		ensidered with the following effect, but it	is not deemed
1. The proposed amendments to the claim	m and /or specification will not be enter	red and the final rejection stands because	;e:
a. There is no convincing showing presented.	under 37 CFR 1.116(b) why the propo-	sed amendment is necessary and was n	ot earlier
b. They raise new issues that wou	ld require further consideration and/or s	earch. (See Note).	المراجع المراجع
c. They raise the issue of new ma	tter. (See Note).		
d. They are not deemed to place appeal.	the application in better form for appea	by materially reducing or simplifying the	e issues for
: [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18] : [18]	without cancelling a corresponding num	shor of finally rejected states	
They present accurate claims	without cancening a corresponding num	iber of finally rejected dalms.	心言意义
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OF COMPLEMENTAL		SEQUENCE OF NUCLESTION	<u>enloding</u>
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2. Newly proposed or amended claims _ the non-allowable claims.	would be allowed if	submitted in a separately film amendm	ent cancelling
3. ☑ Upon the filing an appeal, the propose	A A S. DEFA	will not be entered and the status of the	Company of the second
be as follows:	o anchonent [] white entered []	will not be entered and the stages of the	Claims Will
Claims allowed: 3-5, 7-10		AMY J. NELSON, I	M.D
Claims objected to:	27, 30 53-37	SUPERVISORY PATENT	EXAMINER
However;		TECHNOLOGY CENTE	R 1600
Applicant's response has overcom		ion to striftistion,	115-
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application on 115 this	+ rejection waintoined	does not overcome the rejection because	
	10-13 20-25) Figur	n good and sufficent reasons why it was	+7150 to
presented.	dered because applicant has not showl	n good and sufficent reasons why it was	not earlier
☐ The proposed drawing correction ☐ has	has not been approved by the ex	aminer	
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Application/Control Number: 09/142,108 Page 2

Art Unit: 1638

PROPOSED EXAMINER'S AMENDMENT

- 1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on 7/1/03, Frank DiGiglio requested an extension of time for 1 MONTH(S) and authorized the Commissioner to charge Deposit Account No. 19-1033 the required fee of \$520 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows:

In the Claims:

At Claims 6, and 11-13, line 2, "comprising" has been changed to --consisting of--.

Claim 14 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:2, or the complement of said nucleic acid molecule.

Claim 15 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:4, or the complement of said nucleic acid molecule.

Art Unit: 1638

Claim 16 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:6, or the complement of said nucleic acid molecule.

Claim 17 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:8, or the complement of said nucleic acid molecule.

Claim 18 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:10 or SEQ ID NO:11 or SEQ ID NO:12 or SEQ ID NO:13, or the complement of said nucleic acid molecule.

Claim 19 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:15, or the complement of said nucleic acid molecule.

Claim 20 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:17, or the complement of said nucleic acid molecule.

Claim 21 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:19, or the complement of said nucleic acid molecule.

Art Unit: 1638

Claim 22 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:21, or the complement of said nucleic acid molecule.

Claim 23 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:23, or the complement of said nucleic acid molecule.

Claim 24 (twice amended). An isolated nucleic acid molecule [comprising a sequence of nucleotides encoding or complementary to a sequence] encoding the amino acid sequence as set forth in SEQ ID NO:25, or the complement of said nucleic acid molecule.

Claim 26 (twice amended). A [genetic] <u>DNA</u> construct capable of reducing expression of an endogenous gene encoding a flavonoid 3'-hydroxylase in a plant, said [genetic] <u>DNA</u> construct comprising a nucleotide sequence selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, [SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13,] SEQ ID NO:15, SEQ ID NO:17, and SEQ ID NO:19, [SEQ ID NO:21, SEQ ID NO:23, and SEQ ID NO:25]; and
- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, [SEQ ID NO:7,] SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, [SEQ ID NO:20, SEQ ID NO:22 or SEQ ID NO:24,] and [the coding region in] nucleotides 1478 to 3897 of SEQ ID NO:9.

Art Unit: 1638

Claim 27 (twice amended). A method for producing a transgenic plant which synthesizes a flavonoid 3'-hydroxylase, said method comprising:

stably transforming a cell of a plant with the nucleic acid molecule according to any one of claims [3-24 under conditions wherein said nucleic acid molecule is expressed] 3-5, 7-10, and 15-21 to produce a transformed cell;

regenerating a transgenic plant from the transformed cell; and

growing said transgenic plant [for a time and under conditions] wherein the nucleic acid molecule is expressed.

Claim 33 (twice amended). A transgenic plant having flower tissue exhibiting altered colour, said transgenic plant comprising a nucleic acid molecule [which comprises a sequence of nucleotides] selected from the group consisting of:

- (i) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, [SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13,] SEQ ID NO:15, SEQ ID NO:17, and SEQ ID NO:19, [SEQ ID NO:21, SEQ ID NO:23, and SEQ ID NO:25]; and
- (ii) a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, [SEQ ID NO:7,] SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, [SEQ ID NO:20, SEQ ID NO:22 or SEQ ID NO:24,] and [the coding region in] nucleotides 1478 to 3897 of SEQ ID NO:9.

Art Unit: 1638

Claim 34 (twice amended). [The] A cut flower from the transgenic plant according to claim 33.

Claim 35 (twice amended). [The] A seed from the transgenic plant according to claim 33.

Claim 36 (twice amended). [The] A fruit from the transgenic plant according to claim 33.

Claim 37 (twice amended). [The] A leaf from the transgenic plant according to claim 33.

In the Specification:

The Title of the Invention has been changed to:

--NUCLEIC ACID SEQUENCES ENCODING FLAVONOID 3'-HYDROXYLASE
AND METHODS OF ALTERING FLOWER COLOR THEREWITH--

The Abstract of the Invention has been amended as follows:

At line 1, "genetic" has been changed to --nucleic acid--.

At lines 1-2, "flavonoid pathway metabolising enzyme and more particularly to" has been deleted.

At line 3, "or derivatives thereof" has been deleted.

At line 4, before "plants" -- flowers of-- has been inserted.

At line 4, "and other organisms" has been deleted.

Page 7

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner 3.

should be directed to Amy J. Nelson whose telephone number is (703) 306-3218. The examiner

can normally be reached on Monday-Friday from 8:30 AM - 5:00 PM.

The fax phone number for this Group is (703) 308-4242 or (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application, or if the

examiner cannot be reached as indicated above, should be directed to Customer Service 1600,

whose telephone number is (703) 305-0198.

Amy J. Nelson, Ph.D.

July 7, 2003